

Postdoctoral position to study the architecture and function of intrinsically disordered proteins.

The laboratory of [Matthew Parker](#) in the Department of Biophysics at UT Southwestern Medical Center has multiple postdoctoral positions available for researchers of diverse technical and educational backgrounds. The [Parker Laboratory](#) studies the molecular mechanisms of DNA replication initiation ([Adiji et al. 2024](#)) and the architecture and function of protein intrinsically disordered regions. We have recently developed a new bioinformatic approach to quantify linear variance in amino acid composition revealing a hitherto unappreciated level of logic and interpretability in protein disordered regions ([McConnell and Parker 2023](#)). Our studies demonstrate that disordered sequences are non-randomly organized into modular architectures and we seek individuals interested in understanding how this novel sequence-spanning level of organization impacts protein disordered region function and conformation *in vitro* and *in vivo*. The Parker Laboratory implements a multidisciplinary approach that spans bioinformatics, protein biochemistry, live cell fluorescence imaging, and genetics, and we are interested in recruiting highly ambitious individuals with the ability to think and work independently.

Candidates must hold a Ph.D. and/or M.D. degree and must have an established record of research productivity as evidenced by peer-reviewed publications.

Information on our postdoctoral training program, benefits, and a virtual tour can be found at <http://www.utsouthwestern.edu/postdocs>.

Interested individuals should send a cover letter explaining their interest in the lab, a CV, and a list of three references to matthew.parker@utsouthwestern.edu.

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